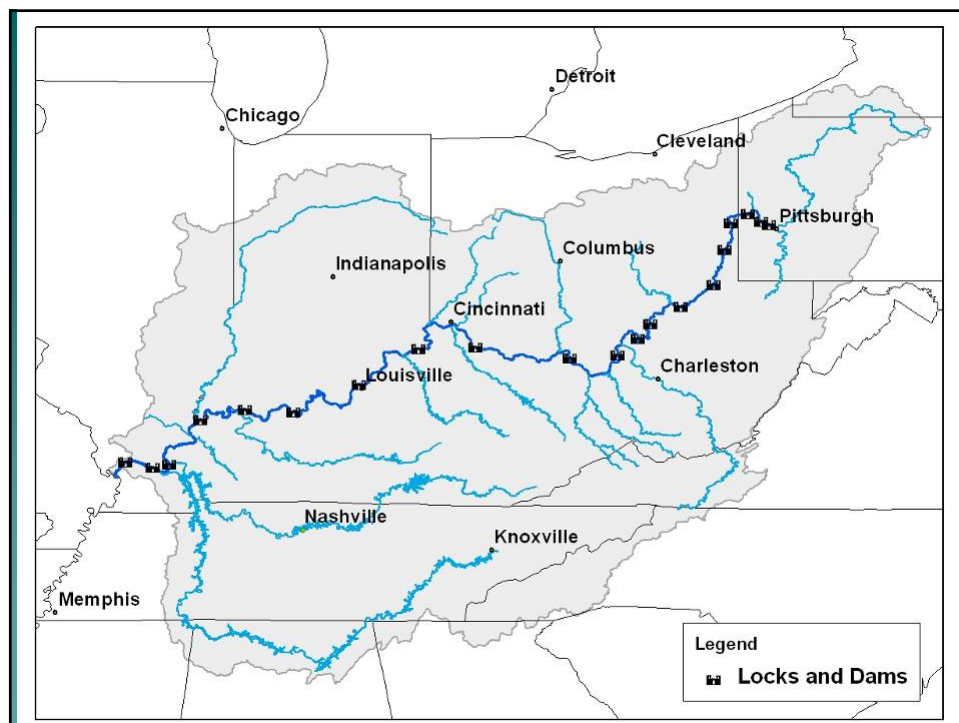


ORSANCO Ohio River nutrient criteria development

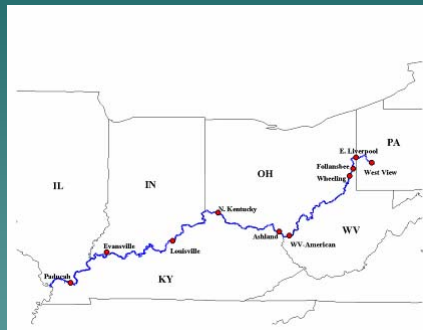


Current Plan

- ◆ Criteria protective of designated uses
 - Warm water aquatic life
 - Public water supply
 - Contact recreation
- ◆ Based on scientifically valid relationships
- ◆ Goal of single criteria for the entire river

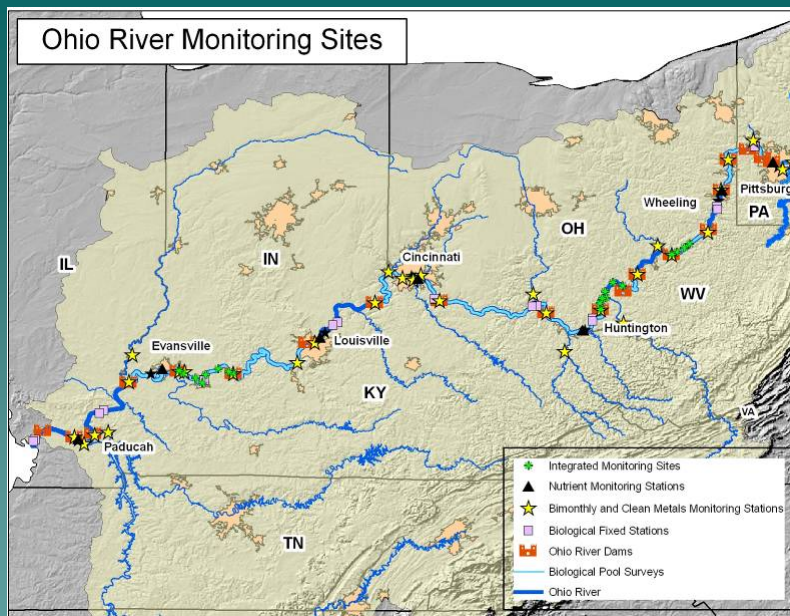
Sampling Program

- ◆ Samples collected by drinking water utilities (Currently 7)
- ◆ Planktonic algae identified to genus level and Chlorophyll *a*
- ◆ Nutrient Analysis includes Ammonia-N, TKN, Nitrate/Nitrite-N, and TP
- ◆ Physical parameters
 - Turbidity
 - pH
 - Temperature



Other Data Sources

- ◆ Bi-Monthly – 17 stations – 20 years
- ◆ Integrated Assessment – 4 pools
- ◆ Fish Population – 16 pools - 4 years
- ◆ Macroinvertebrates – 15 pools – 2 years
- ◆ Periphyton – 5 pools – 1 year
- ◆ Other small studies



Analytical Support

- ◆ Meeting at US EPA Region III RTAG fall 2007
- ◆ Data analysis through N-STEPS
- ◆ Two goals
 - Is there enough data to develop nutrient criteria?
 - Results of analysis

Results

- ◆ Summer 2008
- ◆ Next steps determined by results
- ◆ Will there be data gaps?
 - Public Water Supply
 - Aquatic Life
 - Contact Recreation

On-Going Data Collection

- ◆ Still collecting algae/nutrients, bi-monthly, fish, macroinvertebrates, phytoplankton, integrated assessments
- ◆ DO study in Smithland & JT Myers pools will fill in some gaps in the lower river

Opportunities for Involvement

- ◆ ORSANCO Commission Meetings
 - 3 times per year – February, June, October
 - Next Meeting June 10-12, 2008 in Cincinnati, Ohio

Contact Information

Greg Youngstrom
ORSANCO
513-231-7719
Gregy@orsanco.org